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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,044	01/30/2002		Patrick J. Butler	1348.105-US	4467
	7590	11/07/2005		EXAMINER	
EPSTEIN &		 -	AWAI, ALEXANDRA F		
1901 RESEARCH BOULEVARD SUITE 340				ART UNIT	PAPER NUMBER
ROCKVILLE	ROCKVILLE, MD 20850-3164				
				DATE MAILED: 11/07/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/059,044	BUTLER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Alexandra Awai	3663					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status		,					
1) Responsive to communication(s) filed on 30 Au	-						
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• •							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
 4) Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) 7 and 19-29 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,5,6,10,11,15 and 17 is/are rejected. 7) Claim(s) 2, 4, 8, 9, 12-14, 16 and 18 is/are objected to. 							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine		Evaminer					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119		•					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						

Office Action Summary

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DETAILED ACTION

1. Applicant's election without traverse of invention I and species A in the reply filed on 8/30/2005 is acknowledged. Claims 7 and 19-29 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species B, there being no allowable generic or linking claim. Note that claim 7 recites the limitation, "shim pad", which categorizes it as being for use with the bracket assembly of Fig. 6. Claims 1-6 and 8-18 have been examined.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 recites a "first portion" and a "second portion" of the end plate and attachment plate, but it is not clear how these portions are disposed in relation to each other in each of the two plates. Claim 10 recites the limitation "the space" on page 48, line 21. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1, 3, 5, 6, 10, 11, 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al.

Claims 1, 3, 5, 6, 10, 11, 15 and 17 are directed to a clamp for use with a sparger end bracket as a means of reinforcing the welds joining the bracket body, end plate and sparger conduit. They claim a clamp structure consisting of upper and lower members and a connecting member (i.e., a threaded screw for tightening) that is configured to engage the surfaces of the clamped body (bracket, end plate and conduit) in a fitted manner. Note that a recitation of the intended use (i.e., for installation on a feedwater sparger end bracket assembly) of the claimed invention must result in a non-obvious structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Jensen et al. discloses a clamp for installation on an upper T-box of a feedwater sparger assembly (Fig. 2), which comprises upper and lower members that are shaped to conform to the shape of the clamped body (conduits 18 and 20, as well as T-box 26) and secured around the

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pipe junction by threaded connecting members (e.g., 48A). The upper and lower members are configured with recesses, compartments, shoulders, etc. and attached with a cover plate (article 80), as can be seen in Fig. 2, in order to envelop the conduits and reinforce the welds joining the pipes, T-box and T-box cover — which is analogous to the end plate of the bracket assembly. The T-box clamp was designed to provide structural integrity to the conduit junction and to hold the welded joint together in the event of weld failure — that is, solving the same problem as the invention of the present application for a substantially similar feedwater sparger component. It would have been obvious to one of ordinary skill in the art to adapt the inner surfaces of the Jensen et al. clamp to enclose a feedwater end bracket assembly, thus encompassing the limitations of the aforementioned claims, so as to "prevent unacceptable leakage and to ensure that the core spray system delivers the necessary volumetric flow rate to the reactor core" (column 1, lines 44+); making expedient and economic use of available technology.

Allowable Subject Matter

4. Claims 2, 4, 8, 9, 12-14, 16 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexandra Awai whose telephone number is (517) 272-3079.

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The examiner can normally be reached on 9:30-6:00 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jack Keith can be reached on (571) 272-6878. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AA

November 1, 2005

Mak Hellin